

**From:** [LaVigne, Paul](#)  
**To:** [Tina Laidlaw/MO/R8/USEPA/US@EPA](#)  
**Subject:** FW: C Falls costs  
**Date:** 08/04/2011 02:06 PM

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Hi, Tina. We just did a project with C Falls so I asked Terry Campbell to find out how the plant was doing. Please see his response below.

With regards to Manhattan, it's a pretty new facility (3 or 4 years) and they are still learning. I would say effluent quality over the last year would better represent where they are now and will likely be for the foreseeable future. I know they are trying some operational changes to get nitrate down a bit.

Does that answer your questions?  
Paul

Give me a call if you have more, but remember, there is a 3-question per week limit.

-----Original Message-----  
From: Campbell, Terry  
Sent: Monday, June 27, 2011 9:07 AM  
To: LaVigne, Paul  
Subject: RE: C Falls costs

Paul:

The total project cost for C Falls (not including the headworks project) was \$3,927,688. This included the new standby power generator worth \$259,000. Not sure if you wanted that included in the total.

Headworks project was \$291,000 as best I can tell from records - we reviewed that as a PWS review, so didn't have final cost info, but as I remember, the engineer estimate was pretty close to actual. The headworks improvements were critical to the new bioreactor, so should probably be considered additional cost as part of the BNR improvements.

The upgrades were primarily designed for conversion of ammonia and TP removal. The target N in design was 8.0 mg/L (they are achieving <4.0). The target P in design was 1.0 mg/L (they are achieving <0.05 pretty reliably with combined bio & chemical P removal). The plant was designed in this first phase to take them only to 2015. Then at that point an additional improvement would be added to replace that old basin (now being used as a surge basin) and expand both plant capacity and treatment capabilities. That next phase will likely depend on growth within the community.

Right now C Falls Rates increased from \$23.25/mo to \$44.35/mo to support all of this capital & reserve.

Terry

-----Original Message-----  
From: LaVigne, Paul  
Sent: Friday, June 24, 2011 3:52 PM  
To: Campbell, Terry  
Subject: C Falls costs

Terry, can you get me the total C Falls project costs, design concentrations for N & P and the new user rates (ave)? Because this thing is already built, it wouldn't do much good to separate out costs related to current and future costs. They are paying for the whole thing now. Thanks.  
Paul